

ABSTRACT OF THE DISCLOSURE

METHOD AND APPARATUS FOR  
DRUG AND GENE DELIVERY

An apparatus for treating a patient. The apparatus includes a deployment mechanism having a surface. The apparatus also includes at least one probe disposed on the deployment mechanism surface. The probe extends between 25 microns and 1000 microns from the surface of the deployment mechanism. The apparatus also includes material coated on the probe. A method for treating a patient. The method includes the steps of placing a material with a probe which extends less than 1000 microns from a surface of a deployment mechanism. Next, there is the step of inserting the probe into preferably a blood vessel of a patient. Then, there is the step of penetrating the interior wall of the vessel from the interior of the vessel with the probe by activating the deployment mechanism so the material can contact the vessel.